

SEQUENCE LISTING

<110> Nabel, Elizabeth G.
Nabel, Gary J.

<120> Inhibition of Smooth Muscle Cell Migration by Heme
Oxygenase I

<130> 8642/72

<140>

<141>

<150> 60/097,707

<151> 1998-08-21

<160> 4

<170> PatentIn Ver. 2.0

<210> 1

<211> 1549

<212> DNA

<213> Homo sapiens

<400> 1

tcaacgcctg cctccctctg agcgtcctca ggcagccgc cgcgcgcgga gccagcacga 60
acgagcccag caccggccgg atggagcgtc cgcaaccga cagcatgccc caggatttgt 120
cagaggccct gaaggaggcc accaaggagg tgcacacca ggcagagaat gctgagttca 180
tgaggaaact tcagaagggc caggtgaccc gagacggctt caagctgggtg atggcctccc 240
tgtaccacat ctatgtggcc ctggaggagg agattgagcg caacaaggag agcccagtct 300
tcgcccctgt ctacttccca gaagagctgc accgcaaggc tgccctggag caggacctgg 360
ccttctggta cgggccccgc tggcaggagg tcatccctca cacaccagcc atgcagcgct 420
atgtgaagcg gctccacgag gtggggcgca cagagcccga gctgctgggtg gccacgcct 480
acaccgcta cctgggtgac ctgtctgggg gccagggtgct caaaaagatt gccagaaaag 540
ccctggacct gccagctct ggcgagggcc tggccttctt caccttcccc aacattgcca 600
gtgccaccaa gttcaagcag ctctaccgct ccgcatgaa ctccctggag atgactcccg 660
cagtcaggca gagggtgata gaagaggcca agactgcgtt cctgctcaac atccagctct 720
ttgaggagtt gcaggagctg ctgacctatg acaccaagga ccagagcccc tcacgggcac 780
cagggcttcg ccagcgggac agcaacaaag tgcaagattc tgcccccggtg gagactccca 840
gaggggaagcc cccactcaac acccgctccc aggtccgct tctccgatgg gtccttacac 900
tcagctttct ggtggcgaca gttgctgtag ggctttatgc catgtgaatg caggcatgct 960
ggctcccagg gccatgaact ttgtccggtg gaaggccttc tttctagaga gggaattctc 1020
ttggctggct tcttaccgt gggcactgaa ggctttcagg gctccagcc ctctcactgt 1080
gtccctctct ctggaaagga ggaaggagcc tatggcatct tccccaacga aaagcacatc 1140
caggcaatgg cctaaacttc agagggggcg aaggggtcag cctgcccctt cagcatcctc 1200
agttcctgca gcagagcctg gaagacaccc taatgtggca gctgtctcaa acctccaaaa 1260
gccctgagtt tcaagtatcc ttgttgacac ggccatgacc actttccccg tgggcatggt 1320

caatttttac acaaacctga aaagatgttg tgtcttgtgt ttttgtctta tttttgttgg 1380
agccactctg ttcttggttc agcctcaaata gcagtatttt tgttgtgttc tgttgttttt 1440
atagcagggt tggggtggtt tttgagccat gcgtgggtgg ggagggaggt gtttaacggc 1500
actgtggcct tgggtctaact tttgtgtgaa ataataaaca acattgtctg 1550

<210> 2

<211> 288

<212> PRT

<213> Homo sapiens

<400> 2

Met Glu Arg Pro Gln Pro Asp Ser Met Pro Gln Asp Leu Ser Glu Ala
1 5 10 15

Leu Lys Glu Ala Thr Lys Glu Val His Thr Gln Ala Glu Asn Ala Glu
20 25 30

Phe Met Arg Asn Phe Gln Lys Gly Gln Val Thr Arg Asp Gly Phe Lys
35 40 45

Leu Val Met Ala Ser Leu Tyr His Ile Tyr Val Ala Leu Glu Glu Glu
50 55 60

Ile Glu Arg Asn Lys Glu Ser Pro Val Phe Ala Pro Val Tyr Phe Pro
65 70 75 80

Glu Glu Leu His Arg Lys Ala Ala Leu Glu Gln Asp Leu Ala Phe Trp
85 90 95

Tyr Gly Pro Arg Trp Gln Glu Val Ile Pro Tyr Thr Pro Ala Met Gln
100 105 110

Arg Tyr Val Lys Arg Leu His Glu Val Gly Arg Thr Glu Pro Glu Leu
115 120 125

Leu Val Ala His Ala Tyr Thr Arg Tyr Leu Gly Asp Leu Ser Gly Gly
130 135 140

Gln Val Leu Lys Lys Ile Ala Gln Lys Ala Leu Asp Leu Pro Ser Ser
145 150 155 160

Gly Glu Gly Leu Ala Phe Phe Thr Phe Pro Asn Ile Ala Ser Ala Thr
165 170 175

Lys Phe Lys Gln Leu Tyr Arg Ser Arg Met Asn Ser Leu Glu Met Thr
180 185 190

Pro Ala Val Arg Gln Arg Val Ile Glu Glu Ala Lys Thr Ala Phe Leu

*Sub
A1
cont.*

195 200 205
 Leu Asn Ile Gln Leu Phe Glu Glu Leu Gln Glu Leu Leu Thr His Asp
 210 215 220
 Thr Lys Asp Gln Ser Pro Ser Arg Ala Pro Gly Leu Arg Gln Arg Ala
 225 230 235 240
 Ser Asn Lys Val Gln Asp Ser Ala Pro Val Glu Thr Pro Arg Gly Lys
 245 250 255
 Pro Pro Leu Asn Thr Arg Ser Gln Ala Pro Leu Leu Arg Trp Val Leu
 260 265 270
 Thr Leu Ser Phe Leu Val Ala Thr Val Ala Val Gly Leu Tyr Ala Met
 275 280 285

<210> 3
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:5' primer

<400> 3
 gcggagccag cacgaacga

19

<210> 4
 <211> 19
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:3' primer

<400> 4
 gtgcccacgg taaggaagc

19